

(19) World Intellectual Property
Organization
International Bureau



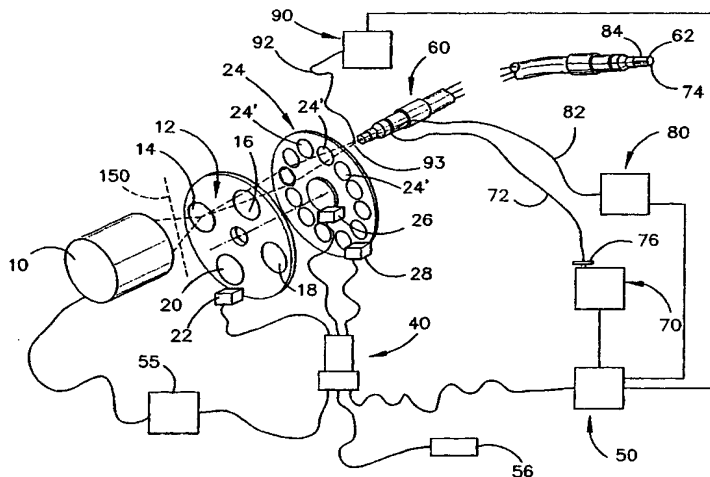
(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/062728 A1

- (51) International Patent Classification⁷: **A61N 5/06**
- (21) International Application Number:
PCT/AU2003/001677
- (22) International Filing Date:
17 December 2003 (17.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2003900176 16 January 2003 (16.01.2003) AU
- (71) Applicant (for all designated States except US): **ROFIN AUSTRALIA PTY LTD [AU/AU]**; Unit 6, 42-44 Garden Boulevard, DINGLEY, Victoria 3172 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **FRAVAL, Hadrian, Nicholas [AU/AU]**; Unit 6, 42-44 Garden Boulevard, DINGLEY, Victoria 3172 (AU).
- (74) Agent: **GRIFFITH HACK**; 509 St Kilda Road, MELBOURNE, Victoria 3004 (AU).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **PHOTODYNAMIC THERAPY LIGHT SOURCE**



(57) Abstract: A photodynamic therapy light source for treating skin conditions of a patient is disclosed which has a light source (10), a filter wheel (24), a light guide (60), and a control unit (40) for controlling the source. A spectral analyser (80) is included for analysing the spectrum received from a patient, and a camera (70) is also provided for taking images of the patient so that before and after treatment images can be taken for comparison purposes and for further diagnosis. A filter wheel (24) is provided which includes a number of filter elements (24') for selectively enabling a particular bandwidth of illumination to be provided. The illumination from the unit (10) can be modulated so that a cyclic treatment of a period in which illumination is applied, followed by a period in which illumination is not applied is provided. The period in which illumination is applied can be further pulsed or modulated to provide a pulsed illumination to the patient during the period in which illumination is applied to the patient.

WO 2004/062728 A1